

## ABSTRACT

Photoresist compositions that contain one or more components having sulfonamide and Si substitution. Preferred photoresist compositions of the invention contain an Si-polymer such as a silsesquioxane that has sulfonamide substitution and may  
5 be employed in multilayer resist systems. In preferred aspects, the Si-polymer has both sulfonamide substitution as well as moieties that can provide contrast upon exposure to photogenerated acid.